INVERTER POWER CBA

HOT CIRCUIT. BE CAREFUL.

AC601 AC CORD
AC INLET
CN1601
F1601 8A/250V
8A 250V
R1601 1M /1/2W
R1608 1M /1/2W
SA1601 SURGE ABSORBER
C1602 1/300V
L1601 LINE FILTER
C1601 0.22 /300V
SA1603 SURGE ABSORBER
L1602 LINE FILTER
C1610 0.22 /300V
SA1602 SURGE ABSORBER
D1601 D10XB60-7000
C1608 0.01 /500V
C1609 0.01 /500V
R1602 8.2M/ 1/2W
C1605 470P /250V
C1604 1000P /250V
C1603 1000P /250V
BC1605 BEAD
BC1601 BEAD
BC1602 BEAD
BC1606 BEAD
C1607 1/630V
R1424 100
R1604 0.015 /2W
D1205 1N5398BE
D1207 1N5398BE
D1206 1N5398BE
D1208 1N5398BE
C1201 47/350V
R1217 820K
R1218 820K
R1219 820K
R122B 1/2W
BC1201 BEAD
C1205 220P /2KV
T1201 POWER TRANS
C1208 560P /2KV
Q1203 2SK3757 (SWITCHING)
R1220 330
C1210 5600P /100V
R1222 1.8K
R1223 1K
C1209 1800P /100V
R1221 470K
D1210 HSS414BTA -E
D1209 18BSB -T52
C1211 6800P /100V
Q1204 2SC2120-O (SWITCHING)
IC1202 LTV817MCF (FEEDBACK)
R1206 100
D1211 HSS414BTA-E
R1224 3.9
C1212 3300P /100V
D1214 18BSB-T26
D1212 39BSB-T52
D1216 HSS414BTA -E
D1217 16BSB-T52
D1219 HSS414BTA-E
D1218 HSS414BTA-E
R1215 100
R1227 10K
R1225 16K
C1213 0.1
C1206 1000P /250V
R1207 3.3K
C1207 0.047 /100V
R1208 560
D1213 KIA431-AT/P (SHUNT) REG.
R1211 1K
R1212 4.3K
R1213 4.7K
D1106 FR104-B
D1107 9V18SC-T52
R1105 6.8K
R1106 27K
C1112 10/50V
D1101 S8160
L1101 22uH
C1103 1000/10V
C1104 100/10V
D1108 HSS414BTA-E
C1102 0.01
C1101 47/25V
D1110 3V98SB-T52
D1102 BV28SB-T52
Q1101 KTC3199-GR-AT/P (+3.3V REG.)
R1103 10
R1109 22
C1105 0.01
R1110 1.5K
R1104 270
D1109 KIA431 -AT/P
R1108 10K
D1103 HSS414BTA-E
R1107 3.3K
D1104 HSS414BTA -E
RL1201 SDT-SS-105DM
R1214 WIRE
D1215 HSS414BTA-E
Q1202 2SA950-O (SWITCHING)
R1229 56/2W
R1226 4.7K
R1216 1K
C1611 1000P /250V
Q1201 KTC3199 -GR-AT/P (SWITCHING)
R1209 33K
R1210 220K

(CONTINUE INVERTER POWER 2/3)
AL+3.3V
AL+5V
POWER-RESET
P-ON-H2

(CONTINUE INVERTER POWER 3/3)
AL+3.3V
POWER-RESET

(CONTINUE INVERTER POWER 3/3) +345V
(CONTINUE INVERTER POWER 2/3) +345V
HOT+17V
POWER-CONTROL

R1401 825K
R1402 825K
R1403 619K
R1404 619K
R1431 825K
R1432 825K
R1433 619K
R1434 619K
R1425 825K
R1426 825K
R1427 619K
R1428 619K
C1407 1200P /100V
R1405 51.1K
R1439 2.2K
IC1401 UCC28060DR (SWITCHING CONTROL)
1.0 ZCDB
6.1 VSENSE
3.7 TSET
1.7 PHB
1.7 COMP
0 GND
1.3 VINAC
4.3 HVSEN
ZCDA 1.0
VREF 6.1
GDA 9.1
GND 0
VCC 17.2
GDB 0
CS 0
PWMCNTL 0.2
R1406 121K
R1409 5.62K
R1408 121K
C1404 2.7
C1413 1000P /100V
C1406 1000P /100V
R1407 2.74K
C1405 1200P
R1435 33.2K
C1414 1200P
R1429 21K
R1430 21K
C1403 0.22 /100V
R1436 4.7K
C1402 2.2
C1401 0.01 /100V
C1416 22P
R1606 4.7
C1415 22P
C1612 150/400V
C1615 100P /2KV
C1616 100P /2KV
D1604 30PF860
D1606 30PF860
D1602 4V7BSB-T52
D1607 4V7BSB-T52
L1604 LLEE0ZOKT001
BC1604 BEAD
BC1608 BEAD
C1613 330P /2KV
Q1602 2SK3561 (SWITCHING)
R1603 20K
D1605 27BSB-T52
D1615 1ZB27BB
L1603 LLEE0ZOKT001
BC1603 BEAD
BC1607 BEAD
C1614 330P /2KV
R1607 20K
R1605 4.7
Q1601 2SK3561 (SWITCHING)
D1603 27BSB-T52
D1613 1ZB27BB

HOT
COLD

A B C D E F
4 3 2 1

INVERTER POWER CBA

HOT CIRCUIT. BE CAREFUL.

(TO JACK POWER CBA CN601) CN1501
+345V 1
NU 2
HOT-GND 3
HOT+22V 4

BC1501 BEAD
BC1502 BEAD

(CONTINUE INVERTER POWER 1/3)
+345V
HOT+17V
POWER-CONTROL

IC1702 TEA1611T (HIGH-VOLTAGE RESONANT CONTROL)
GND 1 0
VCO 2 1.2
CSS 3 0
CT 4 0.1
OCP 5 0.1
GND 6 0
NU 7
SH 8 173.3
GH 9 177.5
VOO 10 183.4
VREF 20 12.9
SD 19 10.4
IRS 18 11.3
CF 17 12.3
IFS 16 11.4
RESET 15 15.1
VAUX 14 25.6
VDD 13 22.4
GL 12 6.1
GND 11 0

C1708 0.1
R1703 10K
D1708 4V7BSB-T52
C1711 0.47
D1705 HSS414BTA-E
C1707 22/50V
R1708 68K
C1709 330P
R1705 39K
C1731 0.01
R1706 470
C1710 0.1
C1701 0.1
C1704 100/25V
C1712 0.1
C1713 47/25V
R1710 10K
R1711 33K
R1712 68K
D1704 HSS414BTA-E
C1715 4700P
R1707 1K

D1706 SB140 R1701 10
R1713 47
Q1701 2SK3561 (SWITCHING) 347.6 178.0 173.4
C1702 330P /2KV
R1722 10K
D1701 OPEN

D1707 SB140 R1702 10
R1718 47
Q1702 2SK3561 (SWITCHING) 173.4 6.1 0
C1703 330P /2KV
R1724 10K
D1702 OPEN

C1705 4700P R1709 1K
R1719 0.1Ω /2W
R1720 0.1Ω /2W
C1714 0.039 /630V
C1706 100P /1KV
D1703 HSS414BTA-E
D1710 NTZJT-77278
R1704 3.3K

T1701 POWER TRANS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

D1714 FCHS20A08
D1715 FCHS20A08

C1730 OPEN
C1729 OPEN
C1728 OPEN
C1726 0.1
C1725 4700/35V
C1724 4700/35V
C1727 4700/35V
R1744 2.2K
D1717 1Z8388
D1716 18BSB-T52
D1719 HSS414BTA-E
D1801 1SS133
R1745 2.2K
D1802 SB140
R1803 6.8K
R1802 33K
C1811 10/50V
R1805 10K
R1804 1K

BC1701 BEAD
BC1702 BEAD

IC1704 LTV817MBF (FEEDBACK)
13.6 21.4 2.0 20.3
R1730 82
R1733 WIRE
C1721 OPEN
R1732 3.9K
R1734 4.3K
R1735 6.8K
R1736 6.2K
R1737 2.2K
D1713 27BSB-T52
R1738 2.7K
D1712 18BSB-T52
R1727 5.1K
R1728 4.7K
C1720 0.047 /100V
R1731 2.7K
D1720 KIA431-AT/P (SHUNT REG.)
Q1706 KTA1267 -GR-AT/P (SWITCHING) 3.1 6.6 0
R1801 470
C1718 0.01
C1807 10/50V

IC1705 LTV817MCF (ISOLATOR)
17.2 17.2 17.2 17.2
1.2 D
R1739 390
C1732 0.01
R1721 22K
R1740 22K
Q1707 KTC3199 -GR-AT/P (SWITCHING) (P-ON-ON) D 0.7 0
C1722 0.01
R1741 47K
Q1708 KTC3199 -GR-AT/P (SWITCHING) 0.7 0
R1742 3.3K
C1723 0.01
R1743 10K
R1716 47K
Q1704 KTC3199 -GR-AT/P (SWITCHING) 0.8 0
R1715 22K
C1716 10/50V
R1717 2.2K
Q1703 2SA950-O (SWITCHING) 17.2 16.5
R1714 10K

IC1703 LTV817MCF (ISOLATOR)
23.8 23.7 23.8 23.7
1.4 0.2
R1729 220
C1733 0.01
Q1705 KTC3199 -GR-AT/P (SWITCHING) (P-ON-ON) 0.2 0.7
R1725 22K
C1717 0.01
R1726 47K

Q1401 2SC2120-D (+17V REG.) 17.2 23.8 17.8
R1440 WIRE
R1441 WIRE
R1437 470
R1410 470
R1438 3.3K
R1411 3.3K
D1401 18BSB-T52
C1408 10/50V

Q1402 2SA950-O (SWITCHING) (P-ON-ON) 23.7 23.8 23.1
R1412 10K
R1413 4.7K
Q1403 KTC3199 -GR-AT/P (SWITCHING) (P-ON-ON) 0.8 0
C1409 0.1
R1415 4.7K
R1414 39K
Q1404 KTC3199 -GR-AT/P (SWITCHING) (P-ON-ON) 0.8 0
D1402 24BSB-T52
C1410 0.022
R1423 220K
C1412 0.01
R1420 26.7K
R1421 WIRE

C1411 100/25V
R1417 100K
R1418 100K
R1419 100K
R1422 100K
R1710 10K

HOT
COLD

CN1804 (TO LCD MODULE)
1 PANEL+24V
2 PANEL+24V
3 PANEL+24V
4 PANEL+24V
5 PANEL+24V
6 GND
7 GND
8 GND
9 GND
10 GND

C1809 OPEN
C1808 OPEN
C1810 OPEN
C1806 2200/35V
C1801 2200/35V

CN1803 (TO LCD MODULE)
1 PANEL+24V
2 PANEL+24V
3 PANEL+24V
4 PANEL+24V
5 PANEL+24V
6 GND
7 GND
8 GND
9 GND
10 GND
11 PROTECT3
12 NU
13 BACKLIGHT-ADJ
14 BACKLIGHT-SW

(CONTINUE INVERTER POWER 1/3)
AL+3.3V
AL+5V
POWER-RESET
P-ON-H2

CN1801 (TO JACK POWER CBA CN901)
1 GND
2 GND
3 PROTECT3
4 BACKLIGHT-SW
5 BACKLIGHT-ADJ
6 GND
7 POWER-RESET
8 P-ON-H2
9 P-ON-H1
10 AL+5V
11 AL+5V

C1812 1000P
C1802 1000P
C1804 1000P
C1805 1000P
C1803 1000P

CN1802 (TO JACK POWER CBA CN902)
23 AL+5V
22 AL+5V
21 P-ON-H1
20 P-ON-H2
19 POWER-RESET
18 GND
17 BACKLIGHT-ADJ
16 BACKLIGHT-SW
15 PROTECT3
14 GND
13 DVD-P-ON2
12 DVD-P-ON1
11 IREDCONTV
10 DISC-OUT
9 DISC-IN
8 DVD-SPDIF
7 GND
6 SUB-RXD
5 SUB-TXD
4 DVD-RESET
3 DVD-READY
2 PROTECT4
1 GND

(CONTINUE INVERTER POWER 3/3)
PROTECT4
DVD-READY
DVD-RESET
SUB-TXD
SUB-RXD
DVD-SPDIF
DISC-IN
DISC-OUT
IREOCDNTV
DVD-P-DN1
DVD-P-ON2

4 3 2 1
G H I J K L

INVERTER POWER CBA

HOT CIRCUIT. BE CAREFUL.

(CONTINUE INVERTER POWER 1/3) +345V

BC1503 BEAD
BC1504 BEAD
C1922 10/400V
C1920 3300P /1.6KV
R1908 100K /2W
R1909 100K /2W
R1911 470K
R1912 470K
R1913 470K
R1914 470K
D1902 1HB-A2
D1911 1HB-A2
BC1902 WIRE
C1921 220P /2KV
Q1901 2SK3798 (SWITCHING)
344.0
-1.9
0.1
C1913 1000P /100V
R1901 100K
D1909 27BSB-T52
R1903 120
R1905 120
C1916 0.033 /100V
D1905 20BSB-T26
D1906 1SS133
D1910 1SS133
Q1902 2SC53440-AT (SWITCHING CONTROL)
1.9
0.5
0
C1915 0.039
R1904 2.2K
R1906 1.5K
D1903 5V6BSB-T52
R1916 4.7K
D1904 HSS414BTA -E
R1928 390
R1907 390
IC1901 LTV817MCF (FEEDBACK)
22.9
0.5
C1917 2200P /100V
C1919 2200P
R1915 100
R1910 1/2W
D1927 12B27BB
D1908 HSS414BTA-E
D1901 HSS414BTA-E
D1907 39BSB-T52
R1902 150
C1904 OPEN
D1918 27BSB-T25
T1901 POWER TRANS
JS1901
D1912 SB3150BH
D1920 SB390
D1915 SB390
D1921 SB390
D1919 SB390
C1923 2200/25V
C1924 4700/10V
D1916 A12B18BB
D1914 OPEN
R1934 1K
R1923 27
R1924 3.3K
3.6
4.7
R1920 220
R1921 1K
R1922 1K
C1926 0.033 /100V
R1925 0
D1917 KIA431-AT/P (SHUNT REG.)
R1926 2K
HOT
COLD

R1946 470
R1947 470
R1948 470
R1944 2.2K
R1943 22K
R1953 22K
R1941 15
Q1941 KTC3199 -GR-AT/P (FAN-LOCK DET)
R1942 1K
R1949 47K
D1941 1SS133
R1945 1K
Q1951 HSS414BTA-E
Q1951 KTC3199 -GR-AT/P (FAN-LOCK DET)
0.7
R1952 1K
R1957 47K
R1951 22
CN1904 (TO FAN)
1 FAN-VCC
2 FAN-LOCK

D1922 FR201BD
D1923 FR201BD
12.6
11.9
Q1904 2SA1931 (SW+12V)
C1907 0.1
R1917 4.7K
R1918 1.2K
Q1905 KTC3199 -GR-AT/P (SWITCHING)
0.7
R1919 22K
R1932 47K
R1956 470
R1955 120
R1954 120
C1903 1000P
C1902 1000P
C1901 1000P
Q1906 2SA950-0 (FAN CONTROL)
R1929 4.7K
R1930 2.2K
Q1907 KTC3199 -GR-AT/P (SWITCHING)
R1931 22K
R1933 47K
C1905 1000P
C1906 0.1
C1911 10P
C1929 1000P
C1928 1000P
C1908 100P
C1909 100P
C1904 1000P
C1910 1000P

CN1902 (TO BO POWER CBA CN2402)
1 +12V
2 +10.5V
3 +10.5V
4 GND
5 GND
6 GND
7 IREDCONTV
8 AL+3.3V
9 OISC-OUT
10 OISC-IN
11 FAN-GND
12 FAN-POWER

(CONTINUE INVERTER POWER 1/3)
AL+3.3V
POWER-RESET

(CONTINUE INVERTER POWER 2/3)
PROTECT4
DVD-READY
DVD-RESET
SUB-TXO
SUB-RXD
DVD-SPDIF
OISC-IN
OISC-OUT
IREDCONTV
DVD-P-ON1
OVO-P-ON2

CN1901 (TO BO POWER CBA CN2401)
1 PROTECT4
2 DVD-P-ON1
3 DVD-P-ON2
4 GND
5 GND
6 +5V
7 +5V
8 GND
9 OVO-SPDIF
10 GND
11 SUB-RXD
12 SUB-TXO
13 OVO-RESET
14 DVD-READY

4 3 2 1

M N O P Q R